

IRISH STANDARD

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ICS 91.140.60

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SPECIFICATION FOR INSTALLATIONS INSIDE

BUILDINGS CONVEYING WATER FOR HUMAN

CONSUMPTION - PART 2: DESIGN

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 806-2

March 2005

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English version

Specification for installations inside buildings conveying water for human consumption - Part 2: Design

Spécifications techniques relatives aux installations pour l'eau destinée à la consommation humaine à l'intérieur des bâtiments - Partie 2: Conception

Technische Regeln für Trinkwasser-Installationen - Teil 2: Planung

This European Standard was approved by CEN on 3 February 2005.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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EN 806-2:2005 (E)

Contents

Forev	vord	3
1	Scope	4
2	Normative references	4
3	General requirements	7
4	Private water supplies	9
5	Acceptable materials	10
6	Components	14
7	Pipework inside buildings	14
8	Cold potable water services	15
9	Hot water systems	17
10	Prevention of bursting	18
11	Guidelines for water meter installations	21
12	Water conditioning	22
13	Acoustics	23
14	Protection of systems against temperatures external to pipes, fittings and appliances	23
15	Boosting	25
16	Pressure reducing valves	30
17	Combined drinking water and fire fighting services	31
18	Prevention of corrosion damage	32
19	Additional requirements for vented cold and hot water systems	33
Anne	x A (informative) List of acceptable materials (non-exhaustive)	
	x B (informative) Aspects for water conditioning	
	ography	

EN 806-2:2005 (E)

Foreword

This document (EN 806-2:2005) has been prepared by Technical Committee CEN/TC 164 "Water supply", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2005, and conflicting national standards shall be withdrawn at the latest by September 2005.

This document has been prepared under the direction of CEN/TC 164 and is intended for the use of engineers, architects, surveyors, contractors, installers, water suppliers, consumers and regulatory inspections.

This standard has been written in the form of a practice specification. It is the second part of a European Standard consisting of five parts as follows:

- Part 1: General
- Part 2: Design
- Part 3: Pipe sizing
- Part 4: Installation
- Part 5: Operation and maintenance

NOTE: Products intended for use in water supply systems must comply, when existing, with national regulations and testing arrangements that ensure fitness for contact with drinking water. The Member states relevant regulators and the EC Commission agreed on the principle of a future unique European Acceptance Scheme (EAS), which would provide a common testing and approval arrangement at European level. If and when the EAS is adopted, European Product Standards will be amended by the addition of an Annex Z/EAS under Mandate M136 which will contain formal references to the testing, certification and product marking requirements of the EAS. Until EAS comes into force, the current national regulations remain applicable.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

EN 806-2:2005 (E)

1 Scope

This document gives recommendations, and specifies requirements, on the design of potable water installations within buildings and for pipework outside buildings but within the premises (see EN 806-1) and applies to new installations, alterations and repairs.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references the latest edition of the referenced document (including any amendments) applies.

EN 26, Gas-fired instantaneous water heaters for sanitary uses production, fitted with atmospheric burners (Including Corrigendum 1998).

EN 89, Gas-fired storage water heaters for the production of domestic hot water.

EN 545, Ductile iron, pipes, fittings, accessories and their joints for water pipelines — Requirements and test methods.

EN 625, Gas-fired central heating boilers — Specific requirements for the domestic hot water operation of combination boilers of nominal heat input not exceeding 70 kW.

EN 805, Water supply — Requirements for external systems and components outside buildings.

EN 806-1:2000, Specifications for installations inside buildings conveying water for human consumption — Part 1: General.

prEN 806-3, Specifications for installations inside buildings conveying water for human consumption — Part 3: Pipe sizing.

EN 973, Chemicals used for treatment of water intended for human consumption – Sodium chloride for regeneration of ion exchangers.

EN 1057, Copper and copper alloys – Seamless, round copper tubes for water and gas in sanitary and heating applications.

EN 1254-1, Copper and copper alloys – Plumbing fittings – Part 1: Fittings with ends for capillary soldering or capillary brazing to copper tubes.

EN 1254-2, Copper and copper alloys – Plumbing fittings – Part 2: Fittings with compression ends for use with copper tubes.

EN 1254-3, Copper and copper alloys – Plumbing fittings – Part 3: Fittings with compression ends for use with plastics pipes.

EN 1254-4, Copper and copper alloys - Plumbing fittings - Part 4: Fittings combining other end connections with capillary or compression ends

EN 1254-5, Copper and copper alloys – Plumbing fittings – Part 5: Fittings with short ends for capillary brazing to copper tubes.

prEN 1254-7, Copper and copper alloys - Plumbing fittings - Part 7: Fittings with press ends for metallic tubes

EN 1452-1, Plastics piping systems for water supply — Unplasticized poly(vinyl chloride) (PVC-U) — Part 1: General.

EN 1452-2, Plastics piping systems for water supply — Unplasticized poly(vinyl chloride) (PVC-U) — Part 2: Pipes.



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